

**Abstract**

A polymer-impregnated paper-based web for use as a medical packaging bacteria barrier fabric is provided. The use of a particular type of polymer emulsion as the saturant provides the effective range of bacteria filtration while at the same time allowing the web to maintain its enhanced strength and delamination resistance that are required when such substrates are employed to wrap surgical trays, surgical instruments, medical appliances and the like prior to sterilization. The invention consists of a paper-containing medical packaging substrate that has been saturated with a polymer having a glass transition temperature of  $-20^{\circ}\text{C}$  or less.

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